## **NuMI Extraction from MI**

## The MI accepts up to 6 proton batches

( $\sim 5 imes 10^{12} p/{
m batch}$ ) at 8 GeV from

the Booster, accelerates  $8 \rightarrow 120$ 

GeV in  $\sim 1.5$  s. MI cycle types:

NuMI only: Every 1.9 seconds.

Batches 1-6 ightarrow NuMI in 10  $\mu$  s

Mixed mode: Every 2.4-4 seconds.

Batch "1" (2 merged Booster batches "slip

stacked" at  $8 \times 10^{12}$  p)  $\longrightarrow \ \bar{p}$  source.

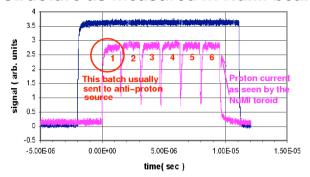
Batches 2-6 ightarrow NuMI in 8  $\mu$  s.

Tevatron store cycles:Once per day ( $\sim 2$  hrs). 150 GeV  $p \rightarrow$  Tevatron and

 $\bar{p}$  from Pbar source accelerated to

50 GeV and injected into Tevatron.

## Batch structure as measured in NuMI beamline



## FERMILAB'S ACCELERATOR CHAIN

